Cobra microTALK

Owner's Manual

FC

TWO-WAY RADIO MODEL

CXT345C

Making Life Easier and Safer

Staying in touch with your family and friends is convenient and easy when using your microTALK® radio. Some of the many uses you will discover include: Communicating with others while hiking, biking, and working; keeping track of family and friends at a crowded public event; checking with travel companions in another car; talking with neighbors; arranging meeting spots with others while shopping at the mall.

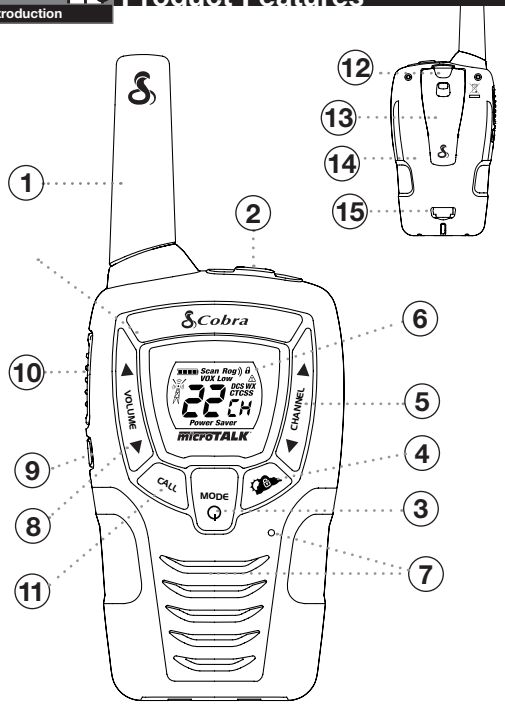
Belt Clip

Secure your microTALK® radio while on the go.

Carrying your microTALK® radio with you is easy when using the belt clip or optional wrist strap.

The belt clip easily attaches to your belt, purse, or backpack.

Product Features



1. Antenna
2. External Speaker/ Microphone/Charge Jack
3. **Mode/Power** Button
4. **Weather/Lock** Button
5. **Channel Up/Down** Buttons
6. Backlit LCD Display
7. Speaker/Microphone
8. **Volume Up/Down** Buttons
9. **Light/Max Range** Button
10. **Talk** Button
11. **Call** Button
12. Wrist Strap Connection
13. Belt Clip
14. Battery Compartment
15. Battery Door Latch

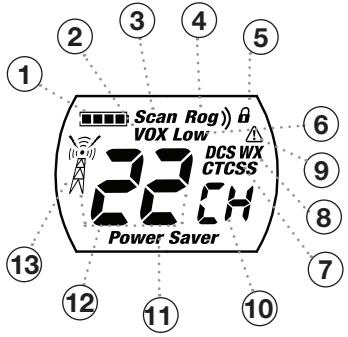
Introduction

Product Features

Features

- **22 Channels** Seven shared with FRS/GMRS, seven FRS only, eight GMRS only.
- **10 Channel Weather Radio**
- **Weather Alert**
- **121 Privacy Codes** (38 CTCSS codes/ 83 DCS codes)
- **Hands-Free Operation (VOX)**
- **Scan** Channels, privacy codes
- **Backlit LCD Display**
- **Call Alert** Five selectable tones
- **Button Lock**
- **Speaker/ Microphone/ Charge Jack**
- **Roger Beep** Selectable On/Off
- **Battery/Power Saver**
- **Keystroke Tones**
- **Battery Level Indicator**
- **Auto Squelch**
- **Maximum Range Extender**
- **Belt Clip**

Backlit LCD Display



1. Battery Level Indicator
2. VOX Icon
3. Scan Icon
4. Roger Beep Icon
5. Lock Icon
6. Low Power Icon
7. DCS/CTCSS Icons
8. Weather Icon
9. Weather Alert Icon
10. DCS/CTCSS Privacy Code Numbers
11. Power Saver Icon
12. Channel Numbers
13. Receive/Transmit Icon

Maximum range may vary and is based on unobstructed line-of-sight communication under ideal conditions.

This device complies with Industry Canada licence-exempt RSS standard(s):
Operation is subject to the following two conditions:
1) this device may not cause interference, and
2) this device must accept any interference, including interference that may cause undesired operation of the device.

«IC» before the equipment certification number signifies that the Industry Canada technical specifications were met. It does not guarantee that the certified product will operate to the user's satisfaction.

Important FCC Licensing Information
This radio operates on General Mobile Radio Service (GMRS) frequencies which require a Federal Communications Commission (FCC) license in the U.S.A. See page 15 for licensing and other related information.

Caring for Your microTALK® Radio

Your microTALK® radio will give you years of trouble-free service if cared for properly. Handle the radio gently. Keep the radio away from dust. Never put the radio in water or in a damp place. Avoid exposure to extreme temperatures.

Installing Batteries

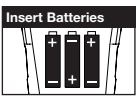
To install or replace batteries:

1. Remove belt clip by releasing belt clip latch and sliding clip up.

2. Pull up on the battery door latch to remove the battery compartment cover.

3. Insert the supplied three AA rechargeable batteries or non-rechargeable alkaline batteries. Position batteries according to polarity markings.

4. Replace battery compartment cover and belt clip.



- Do not attempt to charge alkaline batteries.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (Ni-Cd, Ni-MH, etc.) batteries.

To charge batteries in radio:

1. Check to see that the batteries have been inserted properly.

2. Insert the cable into the charge jack located at the top of the radio.

3. Plug the cable into USB-compatible power port.

Use only the supplied rechargeable batteries and charger for recharging your Cobra microTALK radio.

Cobra recommends your radio is turned off while being charged.

Non-rechargeable alkaline batteries can also be used in your radio.

Using Your Radio

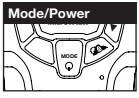
Quick Start

1. Press and hold the **Mode/Power** button to turn **on** your radio.
2. Press the **Channel Up** or **Channel Down** button to select a channel.

Both radios must be tuned to the same channel/privacy code to communicate.

3. Press and hold the **Talk** button while speaking into the microphone.
4. When finished talking, release the **Talk** button and listen for a response.

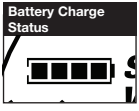
Turning on Your microTALK® Radio



Press and hold the **Mode/Power** button until you hear a series of audible tones indicating the radio is **on**.

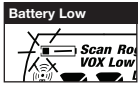
Your microTALK® radio is now in **Standby** mode, ready to receive transmissions. The radio is always in **Standby** mode except when the **Talk**, **Call** or **Mode/Power** buttons are pressed.

Battery Status Indicator



The battery charge status is shown on the display. Four bars indicates fully charged.

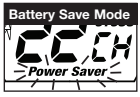
Battery Low



When battery power is low, the final bar in the **Battery Low** icon will blink and an audible tone will sound twice before the radio shuts off. Your batteries should be replaced or recharged, if using rechargeable batteries.

The radio will display flashing battery icon while charging if the radio is on.

Auto Battery Save



If there are no transmissions within 10 seconds, the radio will automatically switch to **Power Save** mode and the **Power Saver** icon will flash in the display. This will not affect the radio's ability to receive incoming transmissions.

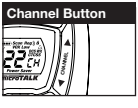
Communicating with Another Person

1. Press and hold the **Talk** button.
2. With the microphone about two inches (5 cm) from your mouth, speak in a normal voice.
3. Release the **Talk** button when you are finished talking and listen for a response.

You cannot receive incoming calls while pressing the **Talk** button.

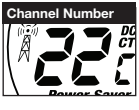
Both radios must be tuned to the same channel to communicate.

To Select a Channel



With the radio **on**, select any of the 22 channels by pressing the **Channel Up** or **Channel Down** button.

Both radios must be tuned to the same channel to communicate.



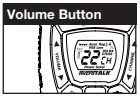
Channels 1 through 7 are shared with FRS/ GMRS. Channels 8 through 14 are FRS only. Channels 15 through 22 are GMRS only.

See **page 14** for FRS/GMRS frequency allocations and compatibility charts.

Listening for a Response

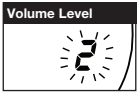
Release the **Talk** button to receive incoming transmissions. Your microTALK® radio is always in **Standby** mode while the **Talk** or **Call** buttons are not pressed.

To Adjust Volume

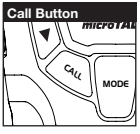


Press the **Volume Up** or **Volume Down** button.

A double beep sound is used to indicate the minimum and maximum volume levels (1 through 8).



Call Button



Press and release the **Call** button.

The other person will hear a two second call tone. This tone is used only to establish voice communications.

See page 12 on how to select between five call tone settings.

To Illuminate Display

Press and release the **Light/Max Range** button to illuminate the display.

Auto Squelch/Maximum Range

Your microTALK® radio will automatically shut **off** weak transmissions and unwanted noise due to terrain, conditions or if you've reached your **Maximum Range** limit.

You can temporarily turn **off** auto squelch or turn **on** maximum range extender, allowing all signals to be received and extending the maximum range of your radio.

To temporarily turn off auto squelch:

Press the **Light/Max Range** button for less than five seconds.

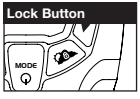
To turn maximum range extender on:

– Press and hold the **Light/Max Range** button for at least five seconds until you hear two beeps which indicates the maximum range extender is **on**.

To turn maximum range extender off:

– Press and release the **Light/Max Range** button or change channels.

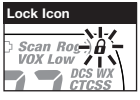
Lock Function



The **Lock** function locks the **Channel Up**, **Channel Down** and **Mode/Power** buttons to prevent accidental operation.

To turn the lock on or off:

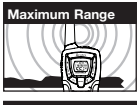
– Press and hold the **Lock** button for two seconds.



A double beep sound is used to confirm your lock **on** or **off** request. When in **Lock** mode, the **Lock** icon will be displayed.

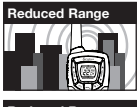
microTALK® Range

Your range will vary depending on terrain and conditions.



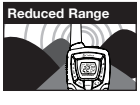
In flat, open country your radio will operate at maximum range.

Buildings and foliage in the path of the signal can reduce the range of the radio.



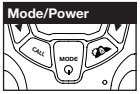
Dense foliage and hilly terrain will further reduce the range of the radio.

On FRS Channels 8 through 14, your radio automatically switches to low power, which will limit the range the radio can communicate.



Scrolling Through the Mode Function

By scrolling through the **Mode** function, you will be able to select or turn **on** preferred features of your microTALK® radio. When scrolling through the **Mode** function, your radio features will be displayed in the same predetermined order:



- Set CTCSS Privacy Codes
- Set DCS Privacy Codes
- Set Vox On/Off
- Set Vox Sensitivity
- Set Channel Scan
- Set CTCSS Privacy Code Scan
- Set DCS Privacy Code Scan
- Set Call Tones
- Set Roger Beep On/Off

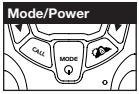
Privacy Codes

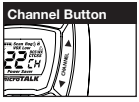
Your microTALK radio incorporates two advanced coded squelch systems that can help to reduce interference from other users on any given channel. CTCSS (Continuous Tone Coded Squelch System) provides 38 privacy codes and DCS (Digitally Coded Squelch) provides 83 privacy codes. This provides a total of 121 **Privacy Codes**. Either system can be used on all channels, but both systems cannot be used on the same channel at the same time.

To successfully communicate using a privacy code, both the sending and receiving radios must be tuned to the same channel and to the same privacy code system (CTCSS or DCS) and privacy code number. Each channel will remember the last privacy code system and number you select.

The privacy code 00 is not a privacy code, but allows all signals to be heard on a channel that is set to 00 on both the CTCSS and DCS systems.

Set CTCSS Privacy Codes





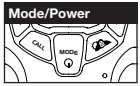
To select a CTCSS privacy code:

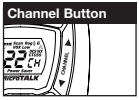
1. After selecting a channel, press the **Mode/Power** button until the **CTCSS** icon appears and the small numbers next to the channel number flash on the display.

   If DCS is turned **on** at the channel selected, the display will flash the CTCSS icon and "OFF." To switch from DCS to CTCSS, press the **Channel Up** or **Channel Down** button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.

2. Press using the **Channel Up** or **Channel Down** button to select a privacy code. You can hold the **Up** or **Down** button for fast advance.
3. When your desired CTCSS privacy code is displayed, choose one of the following:
   - **a.** Press the **Mode/Power** button to enter the new setting and proceed to other functions.
   - **b.** Press the **Lock** button to enter the new setting and return to **Standby** mode.
   - **c.** Do not press any buttons for 15 seconds to enter the new setting and return to **Standby** mode.

Set DCS Privacy Codes





To select a DCS privacy code:

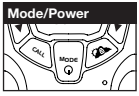
1. After selecting a channel, press the **Mode/Power** button until the DCS icon appears and the small numbers flash on the display (01 through 83).

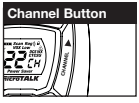
> If CTCSS is turned **on** at the channel selected, the display will flash the DCS icon and "OFF." To switch from CTCSS to DCS, press the **Channel Up** or **Channel Down** button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.

2. Press using the **Channel Up** or **Channel Down** button to select a DCS privacy code. You can hold the **Up** or **Down** button for fast advance.
3. When DCS privacy code is displayed, choose one of the following:
   - **a.** Press the **Mode/Power** button to enter the new setting and proceed to other functions.
   - **b.** Press the **Lock** button to enter the new setting and return to **Standby** mode.
   - **c.** Do not press any buttons for 15 seconds to enter the new setting and return to **Standby** mode.

Voice Activated Transmit (VOX)

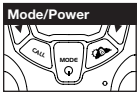
In **VOX** mode, your microTALK® radio can be used "hands-free," automatically transmitting when you speak. You can set the **VOX** sensitivity level to fit the volume of your voice and avoid transmissions triggered by background noise.

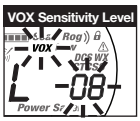




To turn VOX mode on or off:

1. Press the **Mode/Power** button until the **VOX** icon flashes on the display. The current **On** or **Off** setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to turn VOX **On** or **Off**.
3. Choose one of the following:
   - **a.** Press the **Mode/Power** button to enter the selected **On** or **Off** setting and proceed to other functions.
   - **b.** Press the **Lock** button to enter the selected **On** or **Off** setting and return to **Standby** mode.





To set VOX sensitivity:

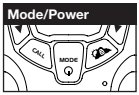
1. Press the **Mode/Power** button until the **VOX** icon flashes and the current sensitivity level is displayed.

> The current VOX sensitivity level is displayed with letters "LE" and a Number 1 through 5, with Number 5 being the most sensitive level and Number 1 being the least sensitive level.

2. Press the **Channel Up** or **Channel Down** button to change the setting.
3. Choose one of the following:
   - **a.** Press the **Mode/Power** button to enter the selected setting and proceed to other functions.
   - **b.** Press the **Lock** button to enter the selected setting and return to **Standby** mode.

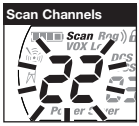
Channel Scan

Your microTALK® radio can automatically scan channels.

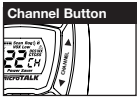


To scan channels:

1. Press the **Mode/Power** button until the **Scan** icon and the channel numbers appear on the display.
2. Press the **Channel Up** or **Channel Down** button to begin scanning channels.



The radio ignores specific privacy codes while scanning channels.



The **Scan** icon will continue to be displayed when scan is **on**. Your radio will continue to scan all channels and stop if an incoming transmission is detected. Your radio will remain on that channel for 10 seconds.

During scanning (while receiving an incoming transmission), you can choose from the following:

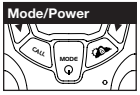
- **a.** Press and hold the **Talk** button to communicate on that channel. Your radio will remain on that channel and return to **Standby** mode.
- **b.** Press the **Channel Up** or **Channel Down** button to resume scanning channels.
- **c.** Press the **Lock** button to return to **Standby**.

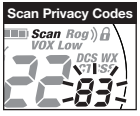
During scanning (while receiving an incoming transmission), you can choose from the following:

- **a.** Press and hold the **Talk** button to communicate on that channel/ privacy code. Your radio will remain on that channel/privacy code and return to **Standby** mode.
- **b.** Press the **Channel Up** or **Channel Down** button to resume scanning privacy codes. If you do not press any button within 10 seconds, your radio will automatically resume scanning privacy codes.
- **c.** Press the **Lock** button to return to **Standby**.

Privacy Code Scan

Your microTALK radio can automatically scan the **Privacy Codes** (either CTCSS 01 through 38 or DCS 01 through 83) within one channel. Only one set of privacy codes (CTCSS or DCS) can be scanned at a time.





To scan privacy codes:

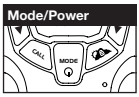
1. While in **Standby** mode, press the **Channel Up** or **Channel Down** button to choose the channel on which you wish to scan privacy codes.
2. Press the **Mode/Power** button until either the CTCSS or the DCS icon appears on the display and the **Scan** icon and the privacy code numbers flash on the display.
3. Press the **Channel Up** or **Channel Down** button to begin scanning privacy codes within the channel you selected.

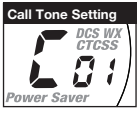
During scanning (while receiving an incoming transmission), you can choose from the following:

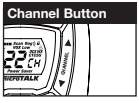
- **a.** Press and hold the **Talk** button to communicate on that channel/ privacy code. Your radio will remain on that channel/privacy code and return to **Standby** mode.
- **b.** Press the **Channel Up** or **Channel Down** button to resume scanning privacy codes. If you do not press any button within 10 seconds, your radio will automatically resume scanning privacy codes.
- **c.** Press the **Lock** button to return to **Standby**.

Five Call Tone Settings

You can choose between five different **Call Tone Settings** to transmit a call alert.





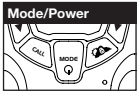


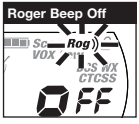
To change a call tone setting:

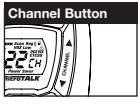
1. Press the **Mode/Power** button until the letter "C" and the current call tone number (01 through 05) is displayed. The current call tone will sound for one second.
2. Press the **Channel Up** or **Channel Down** button to hear the other call tone settings.
3. Choose one of the following:
   - **a.** Press the **Mode/Power** button to enter the new setting and proceed to other functions.
   - **b.** Press the **Lock** button to enter the new setting and return to **Standby** mode.

Roger Beep Confirmation Tone

Your listener will hear an audible tone when you release the **Talk** button. This alerts the other party that you are finished talking and it is OK for them to speak.





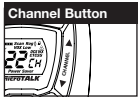


To turn roger beep on or off:

1. Press the **Mode/Power** button until the **Roger Beep** icon flashes. The current **on** or **off** setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to select roger beep **on** or **off**.
3. Choose one of the following:
   - **a.** Press the **Mode/Power** button to enter the new setting and return to **Standby** mode.
   - **b.** Press the **Lock** button to enter the new setting and return to **Standby** mode.

Weather Radio Channels

You can use your microTALK radio to listen to weather channels transmitting in your area.



To listen to Weather Radio channels:

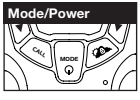
1. Press the **Weather** button until the **WX** icon and the currently selected weather channel is displayed.
2. Use the **Channel Up** or **Channel Down** button to change weather **c**hannels.
3. The **WX** weather icon will continue to be displayed when in weather mode.
4. To exit weather mode, press and hold the **Weather** button until **On** or **Off** is displayed.

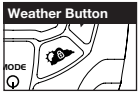
Weather (WX) Alert Mode

Turning **On** the **Weather Alert** function will allow your radio to automatically receive NOAA Hazard Alert radio signals and warnings from designated NOAA broadcast stations. If the radio is turned ON, it will alert to Weather and other emergency alerts broadcast by NOAA.

This feature is set to **OFF** by default.

Make sure the strongest Weather channel is selected for your area using the NOAA All Hazards Radio Channels selection in the previous menu.





To turn Weather Alert On or Off:

1. Press the **Weather/Lock** button until the Weather Alert icon flashes on the display. The current **On** or **Off** setting is displayed.
2. Press the **Channel Up** and **Channel Down** button to turn Weather Alert **On** or **Off**.
3. Press and hold the Weather/**Lock** button again to save the new setting and exit the **Weather Alert Mode** and return to **Standby** mode.

This radio is rain resistant to JIS3 standards.

General Specifications

FRS/GMRS Frequency Allocation and Compatibility

Important: Please note that Cobra GMRS models with 15 Channels may designate different channel numbers for the same frequency. For example, a Cobra 15 Channel GMRS model would need to be tuned to Channel 11 in order to communicate with a 22 Channel GMRS tuned to Channel 15. Please refer to the chart below for channel/ frequency number compatibility.

A = Channel No. for 22 Channel FRS/GMRS Models
B = Channel No. for 15 Channel GMRS Models
C = Type of Radio Service
D = Frequency in MHz
E = Power Output

A	B	C	D	E
1	1	FRS/GMRS	462.5625	High
2	2	FRS/GMRS	462.5875	High
3	3	FRS/GMRS	462.6125	High
4	4	FRS/GMRS	462.6375	High
5	5	FRS/GMRS	462.6625	High
6	6	FRS/GMRS	462.6875	High
7	7	FRS/GMRS	462.7125	High
8		FRS	467.5625	Low
9		FRS	467.5875	Low
10		FRS	467.6125	Low
11		FRS	467.6375	Low
12		FRS	467.6625	Low
13		FRS	467.6875	Low
14		FRS	467.7125	Low
15	11	GMRS	462.5500	High
16	8	GMRS	462.5750	High
17	12	GMRS	462.6000	High
18	9	GMRS	462.6250	High
19	13	GMRS	462.6500	High
20	10	GMRS	462.6750	High
21	14	GMRS	462.7000	High
22	15	GMRS	462.7250	High